

IN THE CLAIMS:

Substitute the following claims for the currently pending claims:

1-186. (canceled)

187. (new) A well testing system, comprising:

a formation test assembly positioned in a wellbore of the well, the formation test assembly including an internal chamber and a first flow control device controlling flow between the chamber and a first zone intersected by the wellbore, the first flow control device being opened to permit fluid flow from the first zone into the chamber, and the first flow control device being closed while fluid is flowed from the chamber into a second zone intersected by the wellbore.

188. (new) The system according to claim 187, wherein the formation test assembly further includes a sampler, the sampler taking a sample of the formation fluid in the chamber.

189. (new) The system according to claim 188, wherein the chamber is formed between the first flow control device and a second flow control device of the formation test assembly, the chamber having a volume between the first and second flow control devices greater than that of the sampler.

190. (new) The system according to claim 187, wherein the formation test assembly includes a perforating gun which perforates the first zone, thereby permitting fluid flow from the first zone into the chamber.

191. (new) The system according to claim 187, wherein the formation test assembly includes a perforating gun which perforates the second zone, thereby permitting fluid flow from the chamber into the second zone.

192. (new) The system according to claim 187, wherein the formation test assembly includes at least one fluid property sensor, the sensor sensing at least one fluid property of the formation fluid in the chamber.

193. (new) The system according to claim 192, wherein an indication of the fluid property sensed by the sensor is transmitted to a remote location while the sensor senses the fluid property.

194. (new) The system according to claim 192, wherein an indication of the fluid property sensed by the sensor is stored in the formation test assembly while the sensor senses the fluid property.

195. (new) The system according to claim 192, wherein the sensor is positioned between the first flow control device and a second flow control device of the formation test assembly.

196. (new) The system according to claim 192, wherein the sensor is a fluid identification sensor.

197. (new) The system according to claim 192, wherein the sensor is a solids sensor.

198. (new) The system according to claim 192, wherein the sensor is a fluid density sensor.

199. (new) The system according to claim 187, wherein the formation test assembly prevents the formation fluid from flowing to the earth's surface while the formation fluid flows through the first flow control device.

200. (new) The system according to claim 187, wherein the formation test assembly is interconnected in a segmented tubular string.

201. (new) The system according to claim 187, wherein the formation test assembly is interconnected in a continuous tubular string.

202. (new) The system according to claim 187, wherein the formation test assembly is connected to a wireline in the wellbore.

203. (new) The system according to claim 187, wherein the formation test assembly includes a pump pumping the formation fluid through the first flow control device.

204. (new) The system according to claim 203, wherein the pump is electrically operated.

205. (new) The system according to claim 203, wherein the pump is hydraulically operated.

206. (new) The system according to claim 203, wherein the pump includes a plug reciprocably disposed within the chamber.

207. (new) The system according to claim 203, further comprising a tubular string connected to the formation test assembly, and wherein the pump is operated by applying pressure to the tubular string at a remote location.

208. (new) The system according to claim 187, wherein an annulus is formed between the formation test assembly and the wellbore, and wherein the formation test assembly includes a packer isolating a first portion of the annulus in communication with the first zone from a second portion of the annulus in communication with the second zone.

209. (new) The system according to claim 187, further comprising a line providing communication between the formation test assembly and a remote location.

210. (new) The system according to claim 209, wherein the line is a fiber optic line.

211. (new) The system according to claim 209, wherein the line transmits commands from the remote location, thereby remotely controlling operation of the formation test assembly.

212. (new) The system according to claim 187, wherein the first flow control device selectively controls flow of the formation fluid between the chamber and an inlet opening of the formation test assembly.

213. (new) The system according to claim 212, wherein the first flow control device is electrically operated.

214. (new) The system according to claim 212, wherein the first flow control device is a check valve.

215. (new) The system according to claim 212, further comprising a second flow control device selectively controlling flow of the formation fluid between the chamber and an outlet opening of the formation test assembly.

216. (new) The system according to claim 187, wherein a pressure differential existing from the first zone to the chamber, and the pressure differential inducing the formation fluid to flow from the first zone into the chamber.

217. (new) The system according to claim 216, wherein the first flow control device is a choke regulating flow of the formation fluid between the first zone and the chamber.

218. (new) The system according to claim 217, wherein operation of the choke is controlled from a remote location.

219. (new) The system according to claim 216, wherein the formation test assembly further includes a fluid separation device reciprocally disposed in the chamber, the fluid separation device displacing in a first direction in the chamber when the formation fluid is flowed into the chamber from the first zone.

220. (new) The system according to claim 219, wherein the fluid separation device displaces in a second direction opposite to the first direction when the formation fluid is flowed from the chamber into the second zone.

221. (new) The system according to claim 220, wherein the fluid separation device displaces in the second direction in response to pressure applied to the fluid separation device from a remote location.